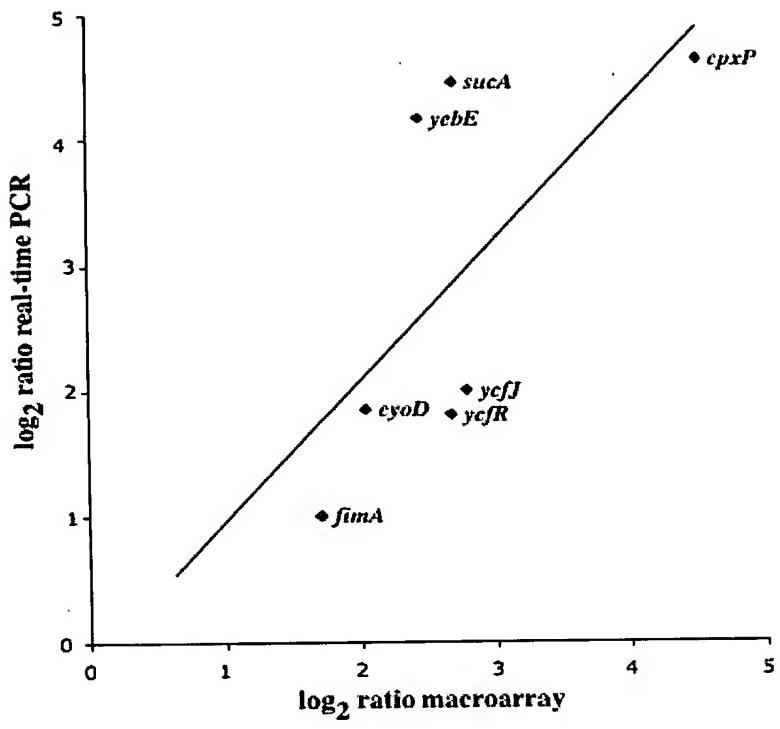


11	Transcription	1 lctR- [14] 16 rbsB- [48]	1 amB- [36] 16 rbsB- [48]	cyoD- [3] sucA- [7]
		5 Translation, ribosomal structure processing and metabolism	Carbohydrate tra- and metabolism	fdhF- [23] cyoC- [26] nifU- [27]
10	dini- [61]	reA- [51] 10 dini- [61]	7 fadB- [20]	sixA- [41] sucD- [43]
11	Information storage and recombination	Information storage and recombination	Lipid metabolism	glpQ- [46]
12	sodC- [32]	cutC- [24]	3 Coenzyme metabolism	mdh- [53]
13	rseB- [29]	cpxP- [1]	2 ucPA- [50]	Energy product and conversion
14	ppa- [2] Inorganic ion transporters	rseA- [55]	Secondary metabolites	
15	pppD- [11]	pppC- [12]	biosynthesis	
16	pppD- [12]	pppC- [12]	Unknown	
17	fimA- [28]	Signal transduc- tion mechanism		ycfJ- [5] ybed- [35]
18	fimI- [49]	Cellular processes		ycfR- [8] ydcI [37]
19	pspE- [47]	ftsL- [17]		yghO- [18] 119 yaaB- [10YddL- [38]
20	tatE - [57]	2 sula- [33]		yebE- [13YccA- [39]
21	pppB- [59]	Cell division and chromosomal parti- tionning		yqCC- [15YfcX- [40]
22	cell envelope	eco- [9]		yhhY- [16Y]bc- [44]
23	biogenesis and secretion	pppA- [22]		yggN- [21YrrdD- [45]
24				yneA- [25YbjF- [56]
25				yiHN- [60]
				General prediction c

### Figure



**Figure 2**

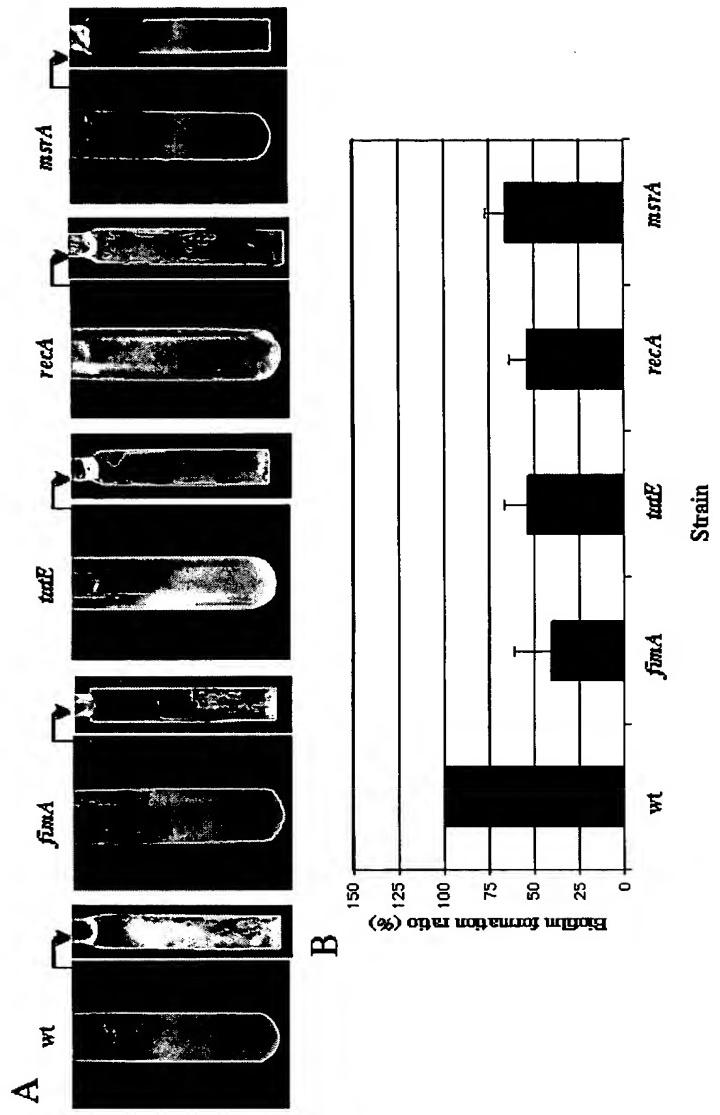
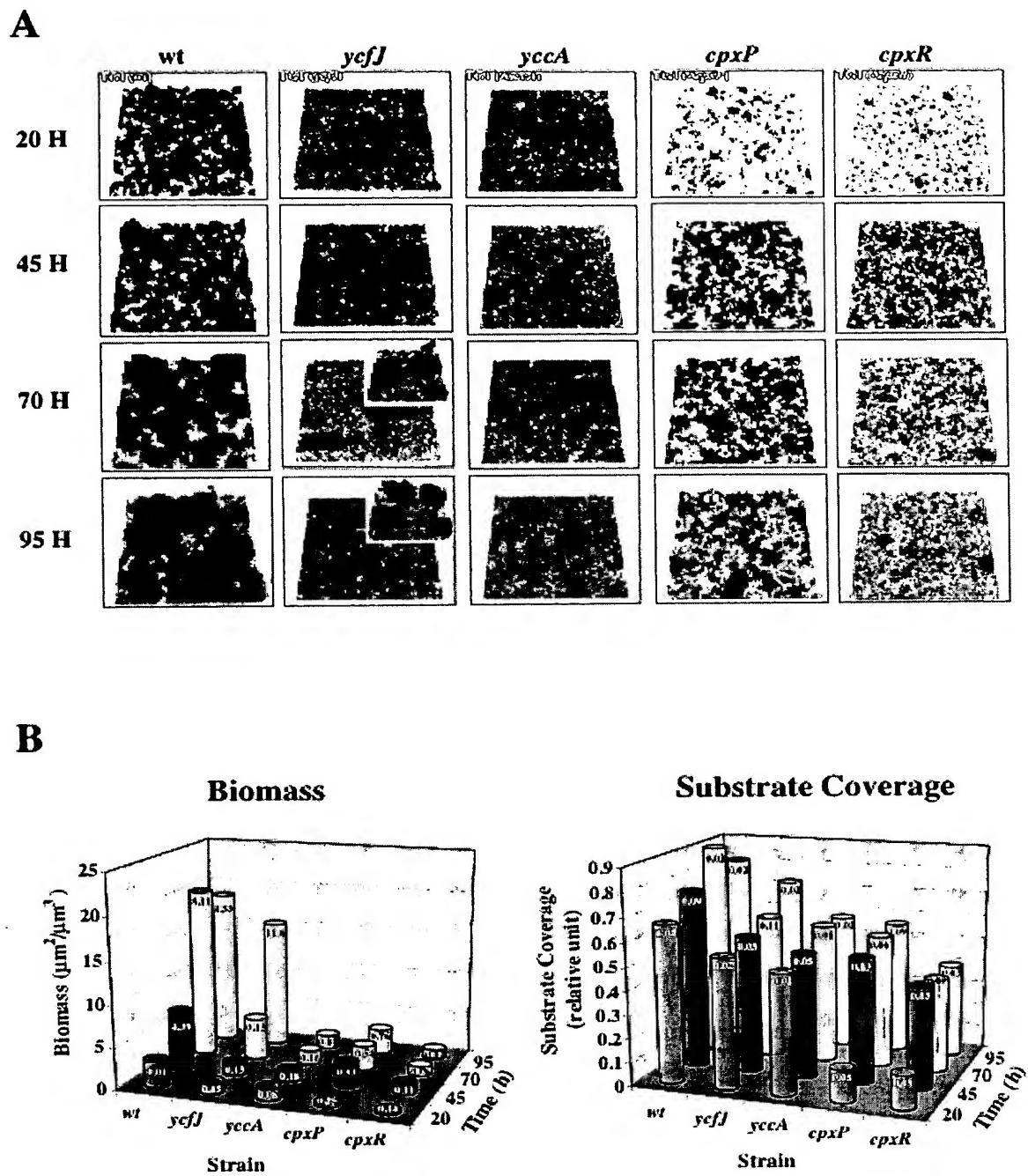


Figure 3

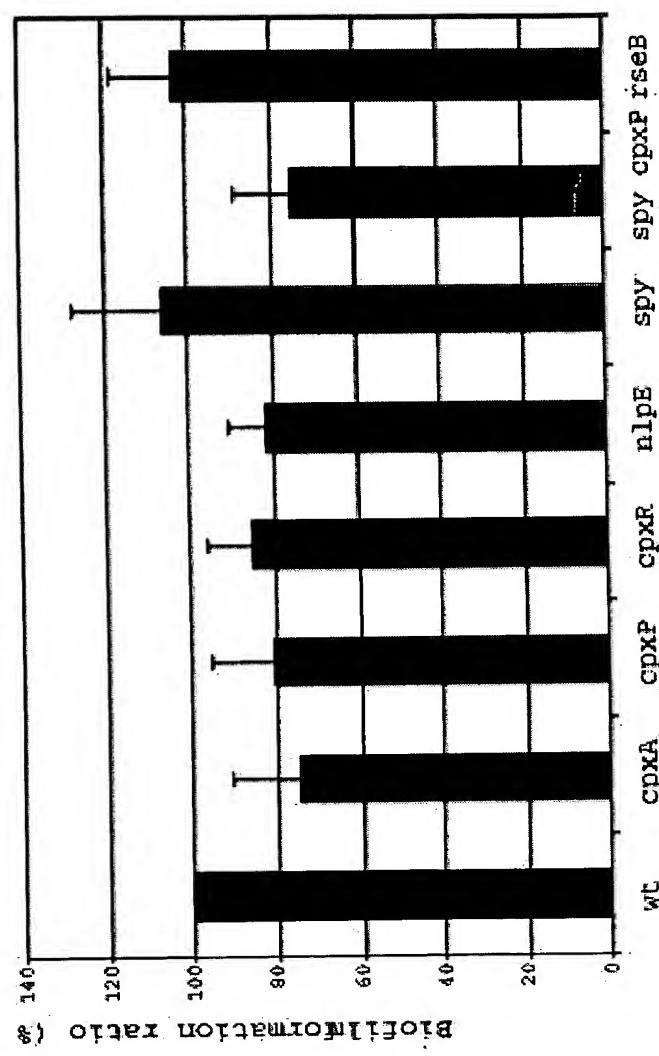
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**Figure 4**

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Figure 5



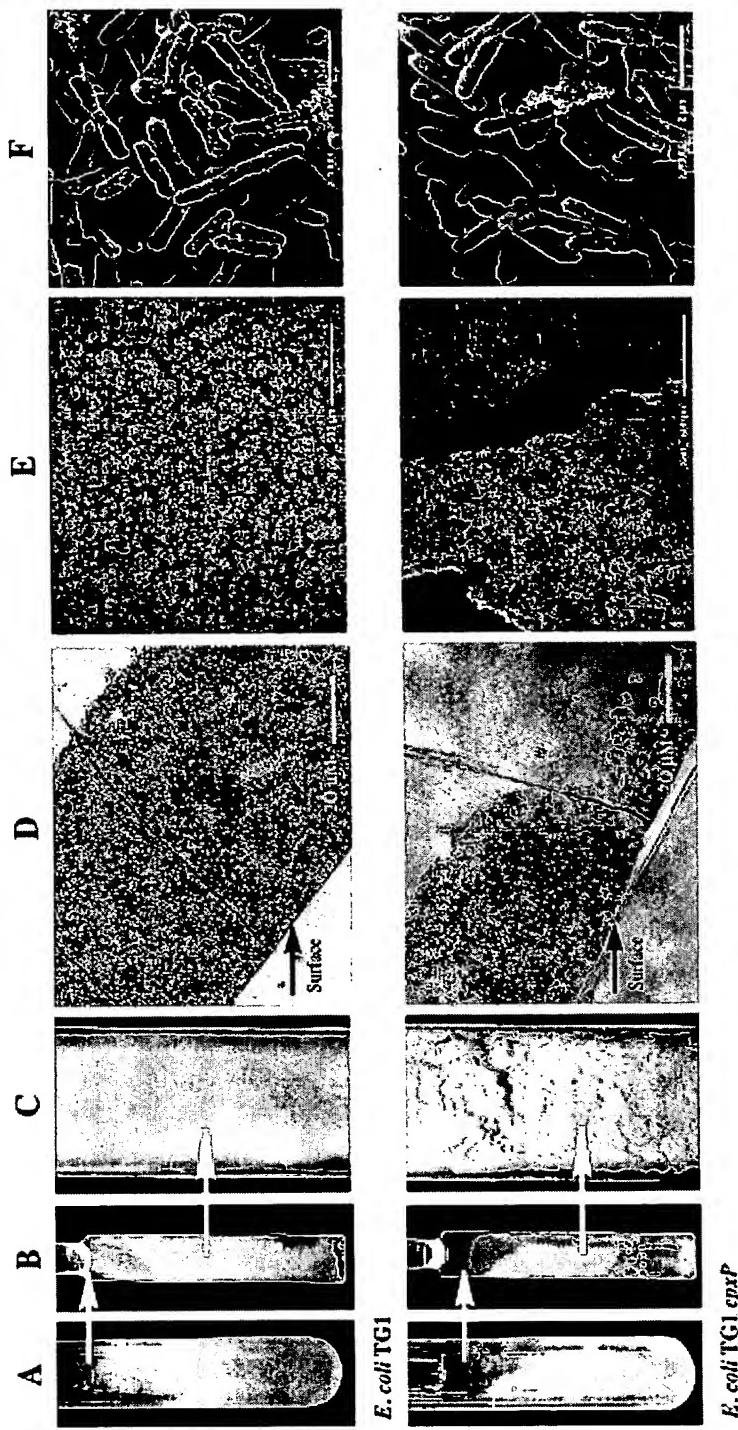


Figure 6

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5

## Transcription

10 Information storage,  
Translation, and  
ribosomal structure  
and metabolism

22

DNA replication,  
recombination  
and repair

3

nucleotide transport  
and metabolism

62

Energy production  
Metabolism and conversion

aroG- [1]

ilvL- [14]

hisC- [17]

glnB- [20]

Amino acid transport  
and metabolism

focA- [2]

bfd- [10]

feoA- [12]

Inorganic ion transport  
and metabolism

exbD- [5]

exbB- [16]

Cellular processes

19

Cell division and

cell envelope

chromosomal

85

partitioning

Post-translational modification,  
protein turnover, peroxides

Function  
unknown

gapA- [4]  
22 many- [18]

Carbohydrate transport  
and metabolism

9

adhe- [1]

Energy production

Metabolism and conversion

aroG- [1]

ilvL- [14]

Secondary metabolism

biosynthesis

Nucleotide transport  
and metabolism

b3007- [3] Unknown

yfjF- [6]

85

yncE- [5]

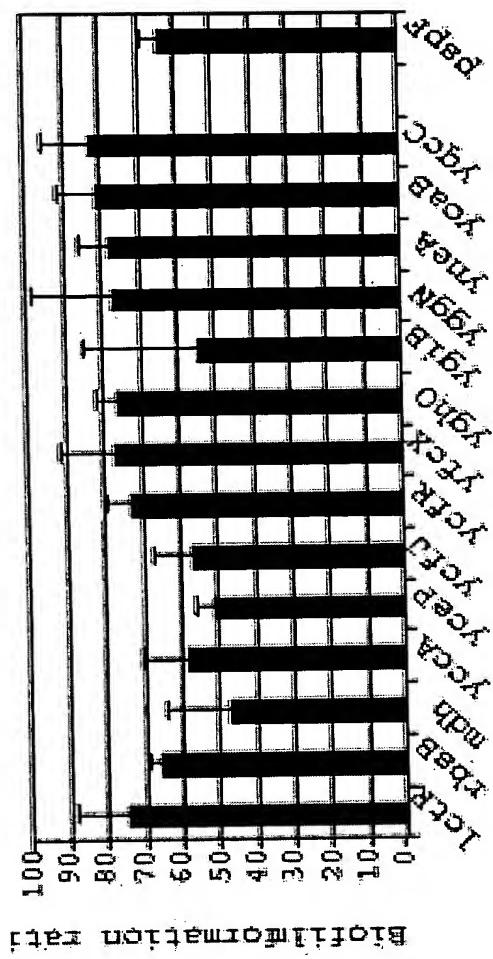
yhiX- [8]

yfiD- [13]

Figure 7

General predict:  
only

Figure 8



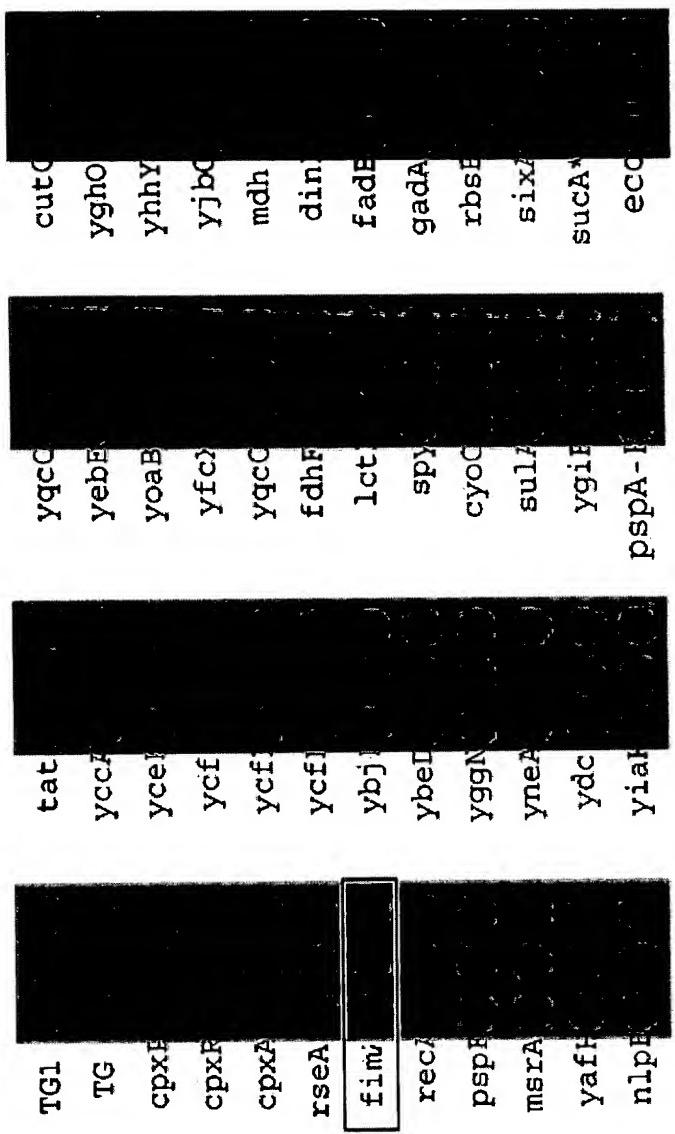


Figure 9